## AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

 (Previously Presented) A method of monitoring the condition of a pump, or a component of a system having a pump wherein the component is not a component of the pump, the method comprising the steps of:

generating a predetermined test condition in the pump or system component comprising generating an abnormal load condition whereby the pump or system component is subject to an increased stress as compared with normal operating stresses and further comprises causing a reduction in clearance between parts of the pump; and

obtaining signals indicative of a condition of the pump or system during a period in which the test condition is present, the test condition occurring during a period in which the reduction in clearance between parts of the pump is present.

- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Previously Presented) The method as claimed in claim 1, wherein the pump has a rotor and a stator and the clearance that is reduced is a clearance between the rotor and the stator.

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5. (Previously Presented) The method as claimed in claim 4, wherein the clearance is

reduced by selective control of rotational speed of the rotor.

6. (Previously Presented) The method as claimed in claim 5, wherein the reduction in

clearance is caused by the steps of causing a predetermined reduction in rotor rotation

speed from a selected speed for a predetermined period of time and then causing a

predetermined increase in rotor rotation speed above the selected speed for a

predetermined period of time.

7. (Withdrawn) The method as claimed in claim 3, wherein the pump is provided with a

cooling system and the reduction in clearance is caused by controlling a rate of flow of

coolant to cause a perturbation of temperature in the pump.

8. (Withdrawn) The method as claimed in claim 3, wherein the reduction in clearance is

caused by increasing a gas flow rate through the pump.

9. (Withdrawn) The method as claimed in claim 1, wherein the pump is driven by an

electric motor and the signals provide an indication of the current supplied to the motor.

10. (Withdrawn) The method as claimed in claim 1, wherein the system component

comprises a conduit connected with the pump, and the system condition is a condition of

the conduit.

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11. (Withdrawn) The method as claimed in claim 10, wherein the step of generating a

predetermined test condition comprises generating a predetermined test flow rate in the

conduit that is greater than a normal operating flow rate through the conduit.

12. (Withdrawn) The method as claimed in claim 11, further comprising obtaining the

signals indicative of a condition of the system by means of a pressure sensor arranged to

sense pressure in the conduit.

13. (Withdrawn) The method as claimed in claim 11, wherein the test flow rate in the

conduit is generated by injecting a pressurized flow into the conduit.

14. (Withdrawn) The method as claimed in claim 11, wherein the test flow rate is

generated by injecting a pressurized gas flow into the pump.

15. (Previously Presented) The method as claimed in claim 1, wherein the pump or the

system having a pump is equipped to store the signals.

16. (Previously Presented) The method as claimed in claim 1, wherein the signals are

transmitted to a storage location via a LAN or the internet.

17. (Previously Presented) The method as claimed in claim 1, wherein the signals are

analyzed to assess the condition of the pump or system component.

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18. (Withdrawn) The method as claimed in claim 17, wherein the analyzing step

comprises comparing the signals with signals obtained during at least one previous

predetermined test condition of the pump or system component.

19. (Withdrawn) The method as claimed in claim 17, wherein the analyzing step

comprises comparing the signals with pre-programmed data.

20. (Withdrawn) The method as claimed in claim 17, wherein the analyzing step

comprises comparing the signals with signals obtained from at least one other pump or

like system component of another system during at least one predetermined test condition

of the other pump or system component.

21. (Withdrawn) The method as claimed in claim 17, wherein the analyzing step

comprises inputting the signals into an algorithm to provide a prediction of pump or

system component condition.

22. (Withdrawn) The method as claimed in claim 17, wherein the analyzing step

comprises inputting the signals into an algorithm to provide a prediction of pump or

system component life until a predetermined condition of the pump or system component

will occur.

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23. (Withdrawn) The method as claimed in claim 17, wherein signals indicative of a

system component condition are obtained and the analyzing step includes using the

signals to predict a condition of the pump or system.

24. (Previously Presented) The method as claimed in claim 17, further comprising

providing an audible indication of the result of the analyzing step.

25. (Previously Presented) The method as claimed in claim 17, further comprising

providing a visual indication of the result of the analyzing step.

26. (Previously Presented) The method as claimed in claim 17, wherein the pump or

system is automatically closed down if the analyzing step indicates a predetermined

condition of the pump or system component.

27. (Previously Presented) The method as claimed in claim 1, wherein the pump or

apparatus with which the pump is associated is able to determine whether the pump or

system is in a condition that permits testing of the pump or system component.

28. (Previously Presented) The method as claimed in claim 27, wherein the determining

step is performed at predetermined intervals.

29. (Cancelled)

30. (Cancelled)

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31. (Cancelled)

32. (Withdrawn) Apparatus as claimed in claim 31, wherein the sensing device comprises

a current sensing device for sensing current supplied to a motor that drives the pump.

33. (Withdrawn) Apparatus as claimed in claim 31, wherein the sensing device comprises

a pressure sensing device for sensing a pressure in the apparatus.

34. (Withdrawn) Apparatus as claimed in claim 31, wherein the apparatus comprises a

cooling system for the pump, the controller being operable to control the cooling system

to generate a the predetermined test condition.

35. (Cancelled)

36. (Withdrawn) Apparatus as claimed in claim 31, wherein the apparatus comprises a

source of pressurized gas and the controller is able to cause a flow of gas from the source

to generate the predetermined test condition.

37. (Withdrawn) Apparatus comprising a pump, a controller, an exhaust conduit

extending from the pump, a sensing device for sensing a condition in the conduit, a

connection associated with the pump or conduit for connecting the pump or conduit with

a source of pressurized gas and valving for controlling flow of the gas into the pump or

conduit, the controller being able to control the valving to selectively admit the gas into

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the pump or conduit so as to generate a predetermined test condition in the conduit and

the sensor providing signals indicative of the condition in the conduit when the test

condition is generated.

38. (Withdrawn) Apparatus as claimed in claim 37, wherein the sensing device comprises

a pressure sensor for sensing gas pressure in the conduit.

39. (Withdrawn) Apparatus as claimed in claim 37, wherein the controller is a controller

for the pump.

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)